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## ABSTRACT

 A neutron absorbent material and a process for manufacturing said material, the neutron absorbent material having great resistance to mechanical damage and more particularly great resistance to crack propagation, which material contains boron carbide and hafnium in the form of powders of fine grain size, and with the manufacturing process it is possible, by reactive sintering of the two powders, to obtain a boron carbide based material having hafnium boride strata, which process comprises a step consisting of mixing boron carbide and hafnium and a reactive sintering step of the mixture obtained.

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